United States Patent

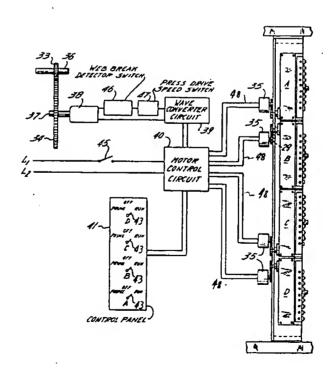
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[54]	A PRINTI	NG I	IS FOR THE INKING MEC MACHINE rawing Figs.	HANISM OF
[52]	U.S. Cl			. 101/365
[51]	Int. Cl		***************************************	R41/31/29
[50].	Field of Sea	irch	***************************************	101/365
	348	34	9, 352, 366, 205–210, 350,	351; 318/85, 78
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ABSTRACT: A mechanism for driving multiunit pumps of an inking mechanism in a printing machine using a signal-sending device to transmit electrical pulse signals, in response to rotation of the press drive shaft, to a motor control circuit, which in turn operates stepping motors to drive an ink pump including remote control means for selectively operating any such unit. An entire pumping unit can be electrically turned on or off to meet various pumping requirements as called for by different operating conditions.



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TITLE: DRIVE MEANS FOR THE INKING MECHANISM OF A PRINTING

MACHINE

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In a typical inking mechanism of modern design, as for example the Fusco inking

mechanism, there are a number of units, one such unit for each page width of

printing machine. Each unit contains a number of measuring pump elements,

there being typically, one such element for each column width of the printing

mechanism, and each pumping element communicates through a flexible tubing to

the ink rail, for supplying ink to one of the nozzles thereof. The rate of

pumping of each pumping element can be individually varied or totally silenced

by limiting the stroke of the pump plunger to zero, through remote control

means. The plunger of each pump element is driven by means of a train of

meshing spur gears which is secured to the plunger, which in turn is driven

through gear boxes and transverse shafts from a drive shaft. The drive shaft

is driven by gearing directly from the main press drive.

The inking mechanism (FIG. 2) is preferably divided into number of units

A, B, C, D, there being one such unit for each page width of the printing

mechanism. Each unit contains a number of measuring pump elements, there

being, typically, one such element for each column width of the printing

mechanism, and each pumping element communicates through a flexible tubing 22

to the ink rail, for supplying ink to one of the nozzles